



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: GE90-76B BYPASS RATIO: 8.5
 UNIQUE ID NUMBER: 5GE086 PRESSURE RATIO (π_{co}): 34.9
 COMBUSTOR:
 ENGINE TYPE: TF RATED THRUST (F_{oo}) (kN): 360.6

REGULATORY DATA **** DATA SUPERSEDED **** SEE FOLLOWING UID FOR REVISED DATA: **6GE087**

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F _{oo} (g/kN) or SN	1.1	23.4	62.4	3.7
AS % OF ORIGINAL LIMIT	5.4	19.8	56.8	22.2
AS % OF CAEP/2 LIMIT (NO _x)			71.0	
AS % OF CAEP/4 LIMIT (NO _x)			81.2	
AS % OF CAEP/6 LIMIT (NO _x)			90.7	
AS % OF CAEP/8 LIMIT (NO _x)			104.2	

DATA STATUS

- PRE-REGULATION
- CERTIFICATION
- REVISED (SEE REMARKS)

TEST ENGINE STATUS

- x NEWLY MANUFACTURED ENGINES
- DEDICATED ENGINES TO PRODUCTION STANDARD
- OTHER (SEE REMARKS)

EMISSIONS STATUS

- x DATA CORRECTED TO REFERENCE (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

- (IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
- x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F _{oo})	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	2.781	0.04	0.12	40.41	2.8
CLIMB OUT	85	2.2	2.280	0.03	0.15	31.77	1.8
APPROACH	30	4.0	0.763	0.06	1.58	15.09	2.9
IDLE	7	26.0	0.267	0.52	15.66	5.64	2.5
LTO TOTAL FUEL (kg) or EMISSIONS (g)			1017	241	6871	19393	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)				0.7	19.1	53.8	2.9
SIGMA (D _p /F _{oo} in g/kN, or SN)				0.1	0.5	0.2	0.4
RANGE (D _p /F _{oo} in g/kN, or SN)				0.61-0.71	18.53-19.39	53.61-53.98	2.59-3.23

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.3-98.2
TEMPERATURE (K)	279.1-281.6
ABS HUMIDITY (kg/kg)	0.0022-0.0064

FUEL

SPEC	Jet A
H/C	1.92
AROM (%)	17.4

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: GE90 Eval Engineering
 TEST LOCATION: Site IIID, PTO, Peebles, Ohio
 TEST DATES: 09/01/2000-12/01/2000

REMARKS

1. GE Report R97AEB298
2. Engine S/N 900326

Compliance with Fuel Venting requirements: - ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)